

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A biomolecule bead-containing tube containing a biomolecule bead array in which biomolecule beads consisting of a spherical bead and a specific biomolecule species immobilized thereon are arranged in a tubular container made of a material transmitting a light having a specific wavelength, wherein a spherical mark bead made of a material optically distinguishable from the material constituting the spherical bead of said biomolecule bead is inserted in a predetermined order between specific biomolecule beads in the biomolecule bead array, wherein said biomolecule bead-containing tube has a first region where a number of the biomolecule beads is larger than a number of the mark beads, and a second region where a number of the mark beads is larger than a number of the biomolecule beads, wherein the second region is provided in a terminal section selected from a start section or an end section for reading-out beads in the biomolecule bead array in the first region.

2. (Currently Amended) A biomolecule bead-containing tube according to claim 1, wherein the mark beads are arranged corresponding to an identification code indicating identification data attribution information selected from a manufacturer's name, an ID number and sequence pattern information for the biomolecule bead array.

3. (Cancelled).

4. (Currently Amended) A biomolecule bead-containing tube according to ~~claim 3~~claim 1, wherein at least the mark beads are arranged in the second region corresponding to an identification code indicating identification data attribution information selected from a manufacturer's name, an ID number and sequence pattern information for the biomolecule bead array.

5. (Cancelled).

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6. (Currently Amended) A biomolecule bead-containing tube according to ~~claim 3~~claim 1, wherein the mark beads are arranged in the first region corresponding to an identification code indicating ~~identification data~~attribution information selected from a manufacturer's name, an ID number and sequence pattern information for the biomolecule bead array.

7.-18. (Cancelled).